

STEREO MOC Status Report
Time Period: 2014:104 - 2014:110

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 105, during the DSS-63 support, turbo decoder lock was lost briefly at 0626z. This anomaly resulted in the loss of three frames of SSR data.
- On day 107, during the DSS-55 support, turbo decoder lock was lost briefly at 1228z. This anomaly resulted in the loss of five frames of SSR data.
- On day 110, during the DSS-55 support, turbo decoder lock was lost intermittently between 1040z and 1447z. This anomaly resulted in the loss of eight frames of SSR data.

2. The following spacecraft/instrument events occurred during this week:

- Between DOYs 103 and 105 the spacecraft occasionally dropped fine-pointing lock. This was due to the reaction wheels operating at low speeds and reduced gyro operations during this time period.
- On day 103, the HGA feed exceeded its operational temperature limit. While the HGA feed is an all metal waveguide design, the temperature will increase as the SPE angle decreases. Detailed thermal analysis is underway and off pointing the HGA will be necessary to prevent damage on both observatories. Options to mitigate the impact to science and the space weather broadcast are actively being investigated.
- The average daily SSR playback volume for Ahead was 4.9 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 109, during the DSS-63 support, no commanding or ranging was conducted due to the transmitter being declared red. See DR #M107909 for more information.

2. The following spacecraft/instrument events occurred during this week:

- The HGA feed has exceeded its operational temperature limit. While the HGA feed is an all metal waveguide design, the temperature will increase as the SPE angle decreases. Detailed thermal analysis is underway and off pointing the HGA will be necessary to prevent damage on both observatories. Options to mitigate the impact to science and the space weather broadcast are actively being investigated.
- The average daily SSR playback volume for Behind was 5.3 Gbits during this week.